

# **Distributed Antenna System Market Report by Offering (Components, Services), System Type (Active, Passive, Digital, Hybrid), Coverage (Indoor, Outdoor), Technology (Carrier Wi-Fi, Small Cells, Self-Organizing Network, and Others), End Use (Manufacturing, Healthcare, Government, Transportation, Hospitality, Public Venues, Education, Telecommunication, and Others), and Region 2023-2028**

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## **Abstracts**

### Market Overview:

The global distributed antenna system market size reached US\$ 13.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 24.4 Billion by 2028, exhibiting a growth rate (CAGR) of 10.9% during 2023-2028. The paradigm shift towards remote and flexible working arrangements, the exponential growth in data usage, the rapid expansion of smart city initiatives, and the increasing deployment of multi-operator resources are some of the major factors propelling the market.

A distributed antenna system (DAS) is a network of spatially separated antennas connected to a common source. This configuration allows for improved wireless coverage and signal strength within a specific area, such as a building or a campus. Instead of relying on a single, powerful antenna, a DAS uses multiple smaller antennas to distribute the signal and enhance connectivity. DAS can be deployed indoors or outdoors and can be used for multiple applications, including cellular services, Wi-Fi, and emergency communication systems. Businesses, universities, airports, and

stadiums often use distributed antenna systems to address connectivity issues and offer seamless communication services. As a result, a DAS is an efficient solution for overcoming the limitations of traditional single-antenna systems, offering more consistent and high-quality wireless coverage.

The global shift towards remote and flexible working arrangements is driving the global market. DAS solutions are being deployed in residential areas and home offices to ensure seamless communication and productivity. Moreover, the exponential growth in data usage, driven by video streaming, social media, and other bandwidth-intensive applications, requires DAS systems to continuously expand capacity and coverage to supporting the growth of the market. Besides, DAS providers are offering customizable solutions that can be tailored to the specific needs of different industries and environments, this is creating a positive market outlook. Furthermore, the rapid expansion of smart city initiatives is a significant growth catalyst, as these urban developments heavily rely on public Wi-Fi and cellular networks for their daily operations. Other factors contributing to market expansion include the increasing deployment of multi-operator resources across diverse sectors and the growing preference among end users for hybrid active/passive DAS solutions.

#### Distributed Antenna System Market Trends/Drivers:

##### Increasing Demand for Better Connectivity in High-Density Areas

The increasing demand for enhanced connectivity in areas with high user density such as airports, stadiums, shopping malls, and business complexes is driving the market. In these locations, traditional single-antenna systems often fall short of providing adequate coverage and capacity. Users experience dropped calls, slow data speeds, and overall poor connectivity due to high demand on limited resources. A DAS can alleviate these challenges by distributing the load across multiple antennas, thereby enhancing the user experience by offering more reliable, high-quality coverage. This increased efficiency is particularly crucial in today's world, where seamless connectivity is expected as a standard service. As more businesses and public facilities recognize the importance of uninterrupted communication, the adoption rate of DAS is likely to accelerate. The impact of this driver is magnified by the growing dependence on smartphones and other wireless devices for both personal and business activities, making strong and reliable connectivity not just a convenience but a necessity.

##### Expansion of the Internet Of Things (IoT) and Smart Infrastructure

As cities and businesses move towards greater automation and digital integration, the need for robust and reliable wireless connectivity becomes imperative. From smart homes and industrial automation to connected cars and public safety systems, the range of IoT applications is vast and growing. A distributed antenna system can provide the required network backbone to support these IoT devices by ensuring that data is transmitted seamlessly and securely. Unlike traditional antenna systems, which may struggle to manage the increased number of connections, a DAS can adapt more effectively, offering scalability and flexibility. As IoT technologies continue to proliferate, the dependency on reliable wireless networks will increase, thereby propelling the DAS market forward.

### Regulatory Support and Public Safety Concerns

Government bodies around the world are increasingly focusing on establishing robust communication systems for emergency services. In many cases, legislation is being put in place that mandates the installation of DAS in new buildings or significant renovation projects to ensure that first responders can maintain communication in all areas of a facility, including potential dead zones. Such mandates underscore the importance of having a resilient and dependable communication infrastructure in times of crisis. Given that DAS can also be integrated with existing public safety communication systems, it presents an effective solution to meet these regulatory requirements. This factor not only impels the market directly through mandated installations but also indirectly by heightening awareness among property owners and managers about the advantages of installing a DAS for improved connectivity and safety.

### Distributed Antenna System Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional and country levels from 2023-2028. Our report has categorized the market based on offering, system type, coverage, technology, and end-use.

### Breakup by Offering:

Components

Services

Services account for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the offering. This includes components and services. According to the report, services represented the largest segment.

DAS services encompass a wide spectrum of activities, including site surveys, design and engineering, installation, integration with existing networks, optimization, and ongoing monitoring and support. These services are critical to tailoring DAS solutions to the unique needs of different environments, such as commercial buildings, sports arenas, or healthcare facilities. Moreover, DAS deployment is a complex undertaking that requires specialized expertise, making it challenging for organizations to manage in-house. Also, the growing demand for DAS services is also influenced by the increasing complexity of wireless networks, driven by emerging technologies, such as 5G and the expanding Internet of Things (IoT). Organizations seek service providers who can navigate this intricate landscape and deliver DAS solutions that not only provide reliable connectivity but also adapt to evolving technological trends.

### Breakup by System Type

Active

Passive

Digital

Hybrid

Hybrid holds the largest share in the industry

A detailed breakup and analysis of the market based on the system type has also been provided in the report. This includes active, passive, digital, and hybrid. According to the report, hybrid accounted for the largest market share.

Hybrid DAS systems consist of active components such as amplifiers and signal processors, as well as passive components, including antennas and coaxial cables. This hybrid approach allows for efficient signal distribution while maintaining signal quality over long distances. It's particularly advantageous in scenarios where there are variations in building structures, signal frequencies, or coverage needs. Furthermore, the rise of 5G technology has added to the demand for hybrid DAS systems. 5G

networks operate across a broad spectrum of frequency bands, each with distinct propagation characteristics. Additionally, the systems are well-suited to efficiently handle this diversity, making them a preferred choice for businesses and organizations aiming to harness the benefits of 5G connectivity.

#### Breakup by Coverage:

Indoor

Outdoor

Indoor represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the coverage. This includes indoor and outdoor. According to the report, indoor represented the largest segment.

The emergence of advanced technologies, such as 5G has amplified the importance of indoor DAS coverage. 5G networks operate at higher frequency bands, which have shorter propagation distances and are more susceptible to signal attenuation, especially indoors. To harness the full potential of 5G, indoor DAS systems are essential to ensure that businesses and consumers can experience the high-speed, low-latency connectivity promised by this next-generation technology. Indoor DAS systems are not limited to enhancing commercial connectivity alone, they also play a pivotal role in public safety. First responders and emergency services rely on robust indoor coverage to communicate effectively during critical situations. As a result, regulatory bodies have imposed requirements for in-building public safety communication systems, further providing a boost to the demand for indoor DAS installations.

#### Breakup by Technology:

Carrier Wi-Fi

Small Cells

Self-Organizing Network

Others

Self-organizing network exhibits a clear dominance in the market

A detailed breakup and analysis of the market based on the technology has also been provided in the report. This includes carrier Wi-Fi, small cells, self-organizing network, and others. According to the report, self-organizing network accounted for the largest market share.

The ascendancy of SON technology is closely linked to the rapid expansion of wireless communication networks, especially in the context of 4G LTE and 5G deployments. These networks require continuous monitoring, optimization, and adjustments to deliver optimal performance. SON technology, driven by advanced algorithms and automation, excels in this regard. It can analyze network performance data in real-time, identify areas of congestion or signal degradation, and dynamically reconfigure the DAS system to address these issues. This results in improved network reliability, reduced downtime, and enhanced user experiences. Furthermore, as the demand for seamless connectivity grows, so does the need for SON technology to manage complex, multi-frequency, and multi-technology DAS environments. SON can efficiently allocate network resources, optimize coverage and capacity, and balance traffic loads across multiple antennas and frequency bands.

Breakup by End-Use:

Manufacturing

Healthcare

Government

Transportation

Hospitality

Public Venues

Education

Telecommunication

Others

Public venues dominate the market

The report has provided a detailed breakup and analysis of the market based on the end-use. This includes manufacturing, healthcare, government, transportation, hospitality, public venues, education, telecommunication, and others. According to the report, public venues represented the largest segment.

DAS systems play a pivotal role in meeting these high-density connectivity demands by distributing signals effectively, thereby alleviating issues, such as dropped calls and slow data speeds. Moreover, the advent of 5G technology has further intensified the importance of DAS in public venues. 5G offers the promise of ultra-fast data speeds and low latency, making it ideal for delivering immersive experiences in arenas or providing real-time information at airports. Public venues are at the forefront of adopting DAS technology to harness the full potential of 5G connectivity. Public safety is another critical factor contributing to the dominance of public venues in the DAS market. In the event of an emergency, first responders rely on robust and uninterrupted wireless communication to coordinate their efforts and ensure public safety. Regulatory bodies increasingly mandate the installation of in-building public safety communication systems in such venues, further fueling the demand for DAS deployments.

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America leads the market, accounting for the largest distributed antenna system market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America



(Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

North America's advanced telecommunications infrastructure and high smartphone penetration rate have led to a robust demand for improved wireless connectivity. Consumers and businesses alike rely heavily on seamless wireless communication for both daily activities and mission-critical operations. This heightened demand has resulted in significant investments in DAS technology to enhance coverage and capacity. Additionally, the region's early adoption of 5G technology has further accelerated the growth of the DAS market. The rollout of 5G networks, with their complex frequency bands and requirements for extensive small cell deployments, has created a compelling need for DAS solutions to ensure comprehensive coverage and efficient network management. Moreover, North America's vast and diverse geography, which includes urban centers, sprawling suburbs, and remote rural areas, presents a unique challenge for network operators.

#### Competitive Landscape:

DAS companies invest significantly in research and development to advance the technology. Moreover, companies are continually innovating and expanding their product portfolios to cater to diverse customer needs. This includes developing new DAS hardware, software, and integrated solutions that offer better coverage, capacity, and scalability. Furthermore, DAS providers often tailor their solutions to specific industries or environments. They work closely with clients to design and implement customized DAS systems that address unique challenges, such as in-building coverage for healthcare facilities or large-scale stadiums. Also, leading players offer deployment and installation services to set up DAS systems in various settings, from commercial buildings and public venues to transportation hubs and residential complexes. They ensure the proper installation and integration of DAS components.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

American Tower Corporation

Boingo Wireless Inc.

Cobham Wireless

Comba Telecom Systems Holdings

CommScope Inc.

Corning Incorporated

Dali Wireless Inc.

TE Connectivity

Westell Technologies Inc.

Zinwave (Wilson Electronics, LLC)

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Recent Developments:

In April 2023, Zinwave (Wilson Electronics, LLC) announces new cellular network scanner 5G. It allows the user to pinpoint any tower to learn signal strength, quality, carrier, band, and frequency.

In April 2023, Westell Technologies Inc. partners with TILSON NETWORK OPERATIONS CENTER (NOC) to deliver enhanced 24/7 intelligent site management. With this partnership, the services deliver enhanced 24/7 monitoring and insight into each of the sites, helping in avoiding incidents before they happen.

In October 2022, American Tower Corporation and Airtel Africa Announce Strategic Partnership. The partnership provides training around information and communications technology skills to underserved communities as part of their respective kiosks and digital community programs.

Key Questions Answered in This Report:

How has the global distributed antenna system market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global distributed antenna system market?

What is the impact of each driver, restraint, and opportunity on the global distributed antenna system market?

What are the key regional markets?

Which countries represent the most attractive distributed antenna system market?

What is the breakup of the market based on the offering?

Which is the most attractive offering in the distributed antenna system market?

What is the breakup of the market based on the system type?

Which is the most attractive system type in the distributed antenna system market?

What is the breakup of the market based on the coverage?

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